

CLAIMS

1. (Currently Amended)

A method comprising:

identifying, by one or more multimedia devices that facilitate access to a multimedia presentation, multiple multimedia elements having a sharing a common single linear time-code value number;

producing a unique extended time-code number for each of the multiple identified multimedia elements, the unique extended time-code number of each of the multiple identified multimedia elements comprising the common single linear time-code value, one or more prefix values, and one or more suffix values,
the producing further comprising:

generating the one or more prefix values for each unique extended time-code number of each of the multiple identified multimedia elements;

generating the one or more suffix values for each unique extended time-code number of each of the multiple identified multimedia elements,

wherein the one or more prefix values, the one or more suffix values, or combination thereof differentiate the unique extended time-code number of each of the multiple identified multimedia elements, thereby making the extended time-code number of each of the multiple identified multimedia elements unique relative to each other

adding a prefix value to linear time-code numbers of each identified multimedia element; and

~~adding suffix values to the linear time-code numbers of each identified multimedia element.~~

2. (Currently amended) The method of claim 1, wherein the multimedia elements comprise audio elements, video elements and interspersed elements.

3. (Original) The method of claim 1, wherein the prefix value comprises a title value.

4. (Original) The method of claim 1, wherein the suffix values comprise language value, angle value, and parental block value.

5. (Original) The method of claim 1, wherein linear time-code value with prefix and suffix values are resident in a time map table that associates the multimedia elements to linear time-code value.

6. (Original) The method of claim 5, wherein the time map is used by a DVD player to point to particular sectors on a DVD disc containing content representing the multimedia elements.

7. (Original) The method of claim 5, wherein the time map table is part of a file that provides pointers to data structures in a medium.

8. (Currently Amended) A DVD player that implements configured to perform the method of claim 7, and wherein the medium is a DVD disc.

9. (Currently Amended) A broadcast point comprising a transmission interface configured to transmit multimedia presentation content that performs and further configured to perform the method of claim 1.

10. (Currently Amended) A multimedia device that performs configured to perform the method of claim 1.

11. (Original) The method of claim 1 further comprising identifying elements without a linear time-code value, and adding a linear time-code to the identified elements without a linear time-code.

12. (Original) The method of claim 11, wherein the elements are interspersed between audio video elements that have linear time-code value.

13. (Currently Amended)

A method comprising:

obtaining identifying a specific title value and one or more specific suffix values, the specific title value and the one or more specific suffix values being associated with multimedia presentation content of particular multimedia elements describing a particular multimedia presentation content comprised of multimedia elements described by extended time code numbers, wherein the multimedia elements have a single extended time code; and

searching—by one or more multimedia devices that facilitate access to a multimedia presentation—for the particular multimedia presentation elements amongst multiple multimedia presentation elements based on their extended time code numbers the obtained specific title value and the one or more specific suffix values, wherein each of the particular multimedia elements have an extended time-code number, each extended time-code number comprising a linear time-code value, one or more title values, and one or more suffix values;

obtaining a specific linear time-code value associated with the multimedia presentation content of a specific multimedia element of the particular multimedia elements; and

searching for, based upon the obtained specific linear time-code value, the specific multimedia element of the particular multimedia elements.

14. (Cancelled)

15. (Cancelled)

16. (Currently Amended) The method of claim 13, wherein the one or more suffixes comprise angle, language, and parental block.

17. (Original) The method of claim 13, wherein the searching is performed based on a time map table that associates multimedia elements with extended time-code numbers.

18. (Currently Amended) A DVD player that implements configured to perform the method of claim 17.

19. (Currently Amended) A personal video recorder that implements configured to perform the method of claim 17.

20. (Original) The method of claim 17 wherein the time map table is part of an information file that provides navigation and presentation information for titles in a medium.

21. (Currently Amended) A DVD player that implements configured to perform the method of claim 20, wherein the medium is a DVD disc.

22. (Currently Amended) A personal video recorder ~~that implements~~
configured to perform the method of claim 20.

23. (Currently Amended) A multimedia device ~~that performs~~
configured to perform the method of claim 13.

24. (Currently Amended) A multimedia player ~~that—performs~~
configured to perform the method of claim 13.

25. (Withdrawn) A method comprising:
receiving multimedia elements with a linear time-code;
receiving multimedia elements without a linear time-code;
attaching linear time-codes; and
synchronizing all multimedia elements based the unique linear time-codes.

26. (Currently Amended) A broadcast point comprising a
transmission interface configured to transmit multimedia presentation content that
performs and further configured to perform the method of claim 13 23.

27. (Cancelled)

28. (Cancelled)

29. (Withdrawn) A method comprising:
extending an information file in a DVD to provide added functionality in
describing content stored on the DVD, and
providing navigation and presentation information from the information
file for playback of various titles.

30. (Withdrawn) The method of claim 29 wherein the
extending the information file is performed by extended time-code numbers that
describe sequencing of the content.

31. (Withdrawn) The method of claim 29 wherein the
extending the information files adds a time map table that describes sequencing
of the content.

32. (Withdrawn) The method of claim 29 wherein the
extending the information files is performed by receiving information describing
the added functionality from a separate source from the DVD.

33. (Currently Amended)

A multimedia device comprising:

a processor;

a receiver configured to receive multimedia elements;

~~a multimedia storage module executable on the processor and configured to store multimedia presentation content comprising of configured to store the received multimedia elements into a physical computer-readable storage media; and~~

~~an extended time-code number module executable on the processor and configured to generate and append a unique extended time-code numbers to each received multimedia element without a time-code number, the unique extended time-code of each of the multimedia elements comprising a linear time-code value, one or more prefix values, and one or more suffix values, wherein the one or more prefix values, the one or more suffix values, or combination thereof differentiate the unique extended time-code number of each of the multimedia elements, thereby making the extended time-code number of each of each of the multiple multimedia elements unique relative to each other.~~

34. (Currently Amended)

The multimedia device of claim 33

~~further comprising a multimedia player module executable on the processor and configured to play the audio/video element and interspersed elements a multimedia player configured to play multiple multimedia elements, which include the received multimedia elements, and further configured to search the multiple~~

identified multimedia elements based on one or more of the following: a specific extended time-code number, one or more specific prefix values, or one or more specific suffix values.

35. (Currently Amended) The multimedia device of ~~claim 33~~
~~claim 34~~, wherein the multimedia player is further configured to search for ~~audio/video element and interspersed elements~~ one or more particular multimedia elements from amongst the multimedia elements, the search being based on the extended time-code numbers or some portion thereof.

36. (Canceled)

37. (Original) The multimedia device of claim 33 wherein the multimedia device is a DVD player.

38. (Original) The multimedia device of claim 33 wherein the multimedia device is a personal video recorder.

Claims 39-42 is Canceled.

43. (New) The multimedia device of claim 33, wherein the multiple multimedia elements comprises those that are received by the receiver and those that are not received by the receiver.